

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

SHANMUGASUNDRAM et al.

Serial No. 09/943,955

Filed: August 31, 2001

For: FEEDBACK CONTROL OF A CHEMICAL MECHANICAL POLISHING DEVICE
PROVIDING MANIPULATION OF REMOVAL RATE PROFILES

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Group Art Unit: 2122 Technology Center 2100
Examiner:SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTHonorable Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

This submission does not constitute a representation that a search has been made or that no better art exists and does not constitute an admission or representation that any of the listed documents is material or constitutes prior art. If it should be determined that any of the listed documents does not constitute prior art under the United States law, Applicants reserve the right

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to present to the Office the relevant facts and law regarding the appropriate status of such document.

No certification or fee is believed to be required. However, the Commissioner is hereby authorized to charge any additional fees should any be required for this submission, or credit any overpayment to deposit account no. 08-0219.

Respectfully submitted,

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<p>INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)</p> <p>DEC 18 2003 U.S. PATENT & TRADEMARK OFFICE O I P E S C I T Y</p>			ATTY. DOCKET NO. 005918 USA/FPS/MMCS/APC	SERIAL NO. 09/943,955	RECEIVED DEC 19 2003 Technology Center 2100	
			APPLICANT SHANMUGASUNDRAM et al.			
			FILING DATE August 31, 2001	GROUP 2122		
			U.S. PATENT DOCUMENTS			
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,207,520	06/10/80	Flora et al.			04/06/78
	4,209,744	06/24/80	Gerasimov et al.			03/27/78
	4,609,870	09/02/86	Lale et al.			09/13/84
	4,755,753	07/05/88	Chern			07/23/86
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	6,563,308	05/13/03	Nagano et al.			03/27/01
	6,587,744	07/01/03	Stoddard et al.			06/20/00
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes
	WO 01/11679	02/15/01	WIPO			X
	WO 01/080306	10/25/01	WIPO			X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Miller, G. L., D. A. H. Robinson, and J. D. Wiley. July 1976. "Contactless measurement of semiconductor conductivity by radio frequency-free-carrier power absorption." <i>Rev. Sci. Instrum.</i> , Volume 47, No. 7. pp. 799 – 805.					
	1999. "Contactless Bulk Resistivity/Sheet Resistance Measurement and Mapping Systems." www.Lehighton.com/fabtech1/index.html .					
	2000. "Microsense II Capacitance Gaging System." www.adetech.com .					
EXAMINER			DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE
CITATION IN AN
APPLICATION
(PTO-1449)



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APPLICANT
SHANMUGASUNDRAM et al.

FILING DATE
August 31, 2001

GROUP
2122

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	El Chemali, Chadi et al. July/August 2000. "Multizone uniformity control of a chemical mechanical polishing process utilizing a pre- and postmeasurement strategy." <i>J. Vac. Sci. Technol.</i> Volume 18, No. 4. pp. 1287 – 1296.
	March 5, 2001. "KLA-Tencor Introduces First Production-worthy Copper CMP In-situ Film Thickness and End-point Control System." http://www.kla-tencor.com/j/servlet/NewsItem?newsItemID=74 .
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	23 October 2003. PCT International Preliminary Examination Report from PCT/US01/24910.
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	"ADE Technologies, Inc. – 6360." http://www.adetech.com/6360.shtml .
	"3D optical profilometer MicroXAM by ADE Phase Shift." http://www.phase-shift.com/microxam.shtml .
	"NanoMapper FA factory automation wafer nanotopography measurement." http://www.phase-shift.com/nanomapperfa.shtml .

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